

```

1. Serializable]
2.     [SqlUserDefinedType(Format.Structured, MaxByteSize=8000)]
3.     public class BaseItem: INullable
4.     {
5.         [SqlUdtField(IsNullable=false)]
6.         private SqlGuid m_ID;
7.
8.         [SqlUdtField(MaxSize=128, IsFixedLength=false)]
9.         private SqlString m_Name;
10.
11.        [SqlUdtProperty(FieldName="m_ID")]
12.        public SqlGuid ID
13.        {
14.            get
15.            {
16.                return m_ID;
17.            }
18.            set
19.            {
20.                this.m_ID = value;
21.            }
22.        }
23.
24.        [SqlUdtProperty(FieldName="m_Name")]
25.        public SqlGuid Name
26.        {
27.            get
28.            {
29.                return m_Name;
30.            }
31.            set
32.            {
33.                this.m_Name = value;
34.            }
35.        }
36.
37.        [SqlUdtField(IsNullable=true)]
38.        public MultiSet<PropertyAssociation> Properties;
39.
40.        #region UDT boilerplate
41.        public BaseItem()
42.        {
43.            this.ID = new SqlGuid(Guid.NewGuid());
44.        }
45.        public override string ToString()
46.        {
47.            return "ID " + this.ID;
48.        }
49.        [SqlUdtField]
50.        protected SqlBoolean m_IsNull = SqlBoolean.False;
51.        public bool IsNull { get { return this.m_IsNull.Value; } }
52.        public static BaseItem Null
53.        {
54.            get
55.            {
56.                BaseItem s = new BaseItem();
57.
58.                s.m_IsNull = SqlBoolean.True;
59.                return s;
60.            }
61.        }
62.        public static BaseItem Parse(SqlString s)
63.        {
64.            return new BaseItem();
65.        }
66.        #endregion
67.    }

```

Fig. 1

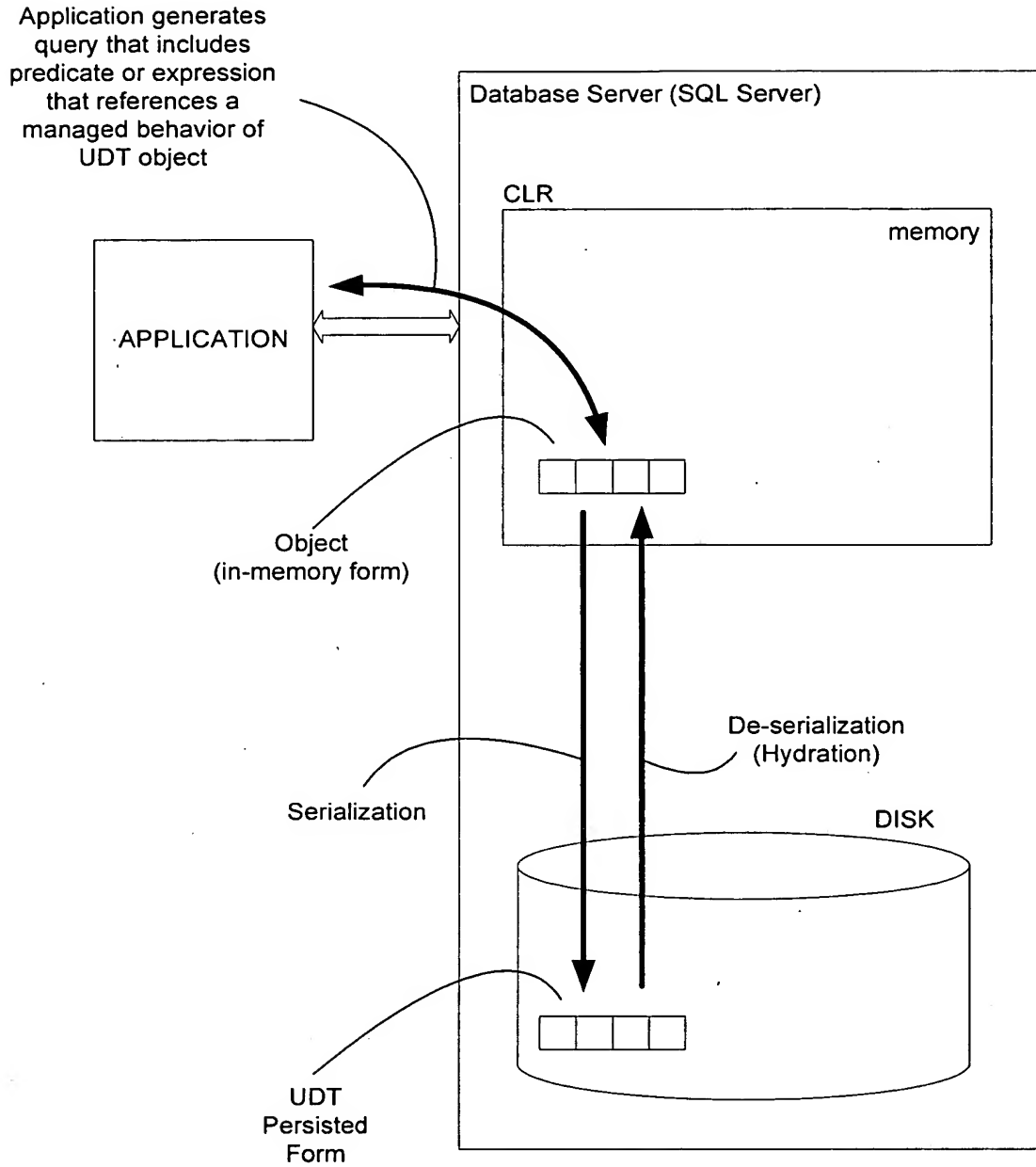


Fig. 2

Column Defined
as UDT

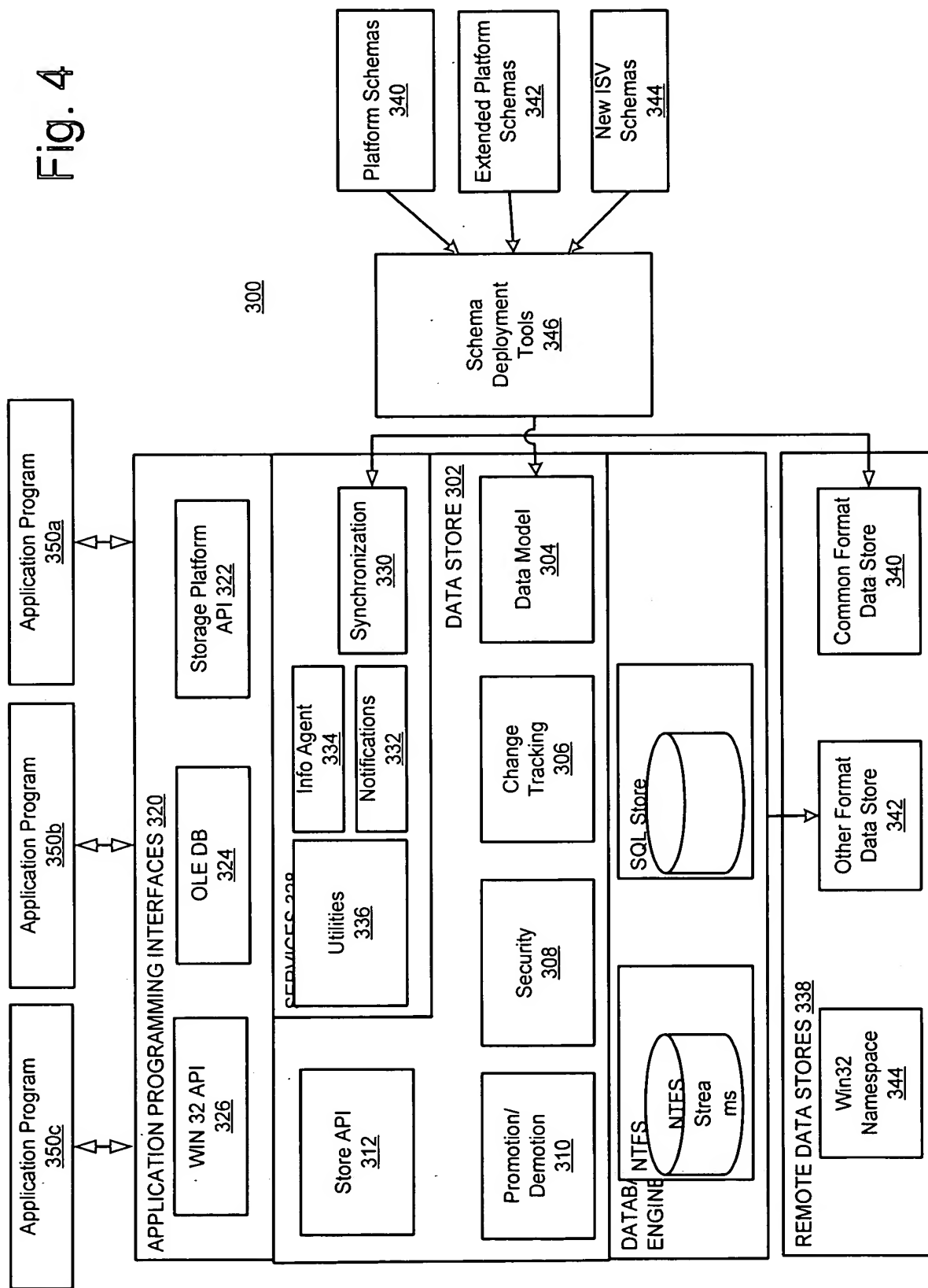
TABLE

| UDT | | | | |
|-----|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

values of object
(i.e., an instance
of the UDT) are
stored in cell of
column

Fig. 3

Fig. 4



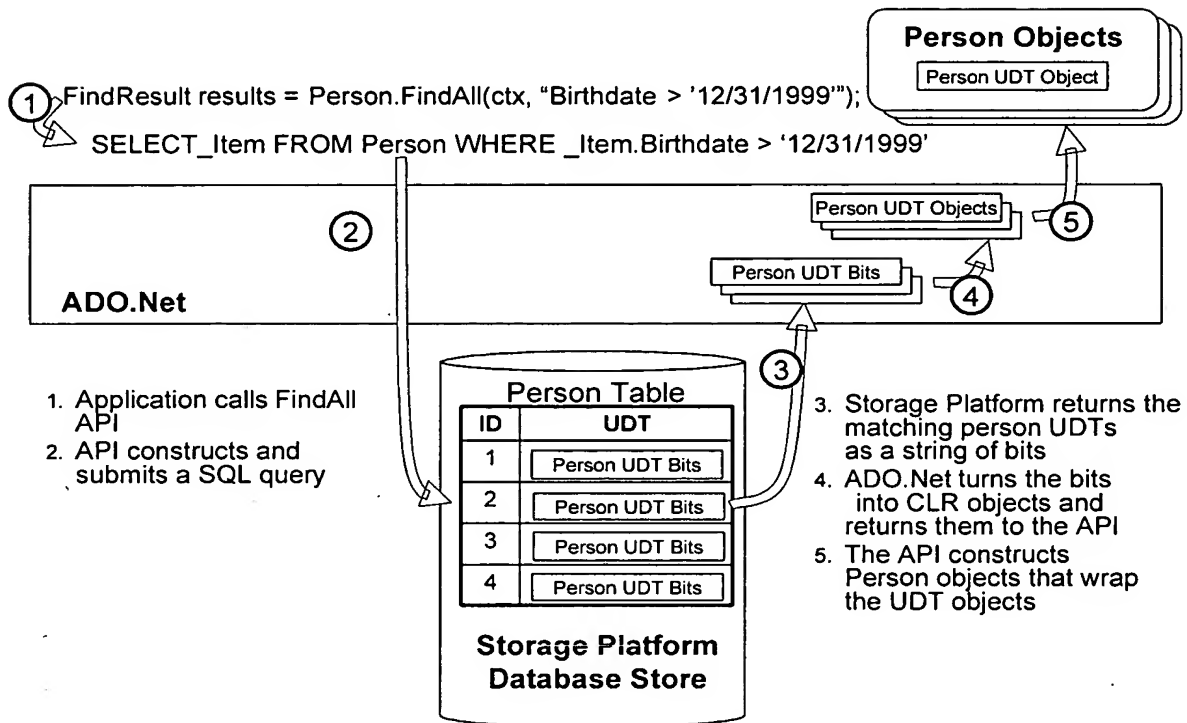


Fig. 5

Class Person

{

[SqlUdtField (IsFixedLength=false; MaxSize = 100)]

SqlString FirstName;

[SqlUdtField(MaxSize=SqlMetaData.MAX; IsFilestream=true;)]

SqlBytes PhotoFS;

}

Fig. 6

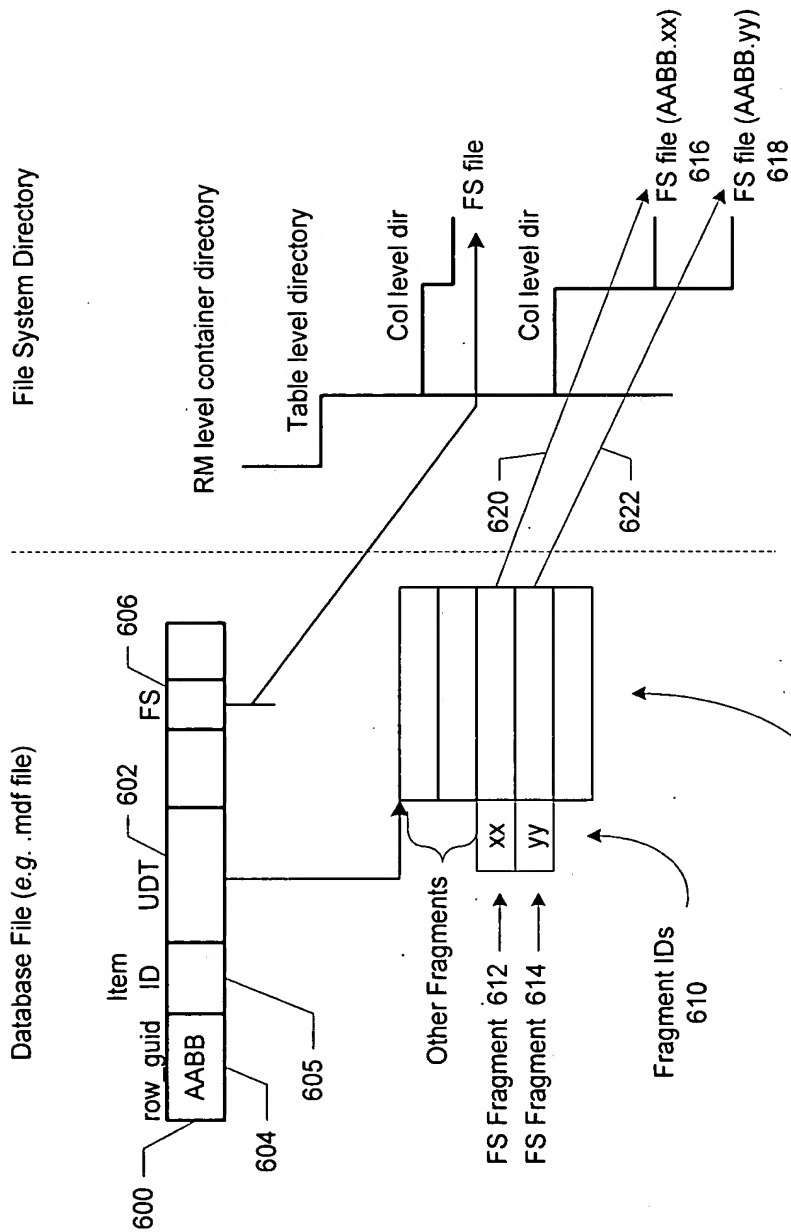


Fig. 7

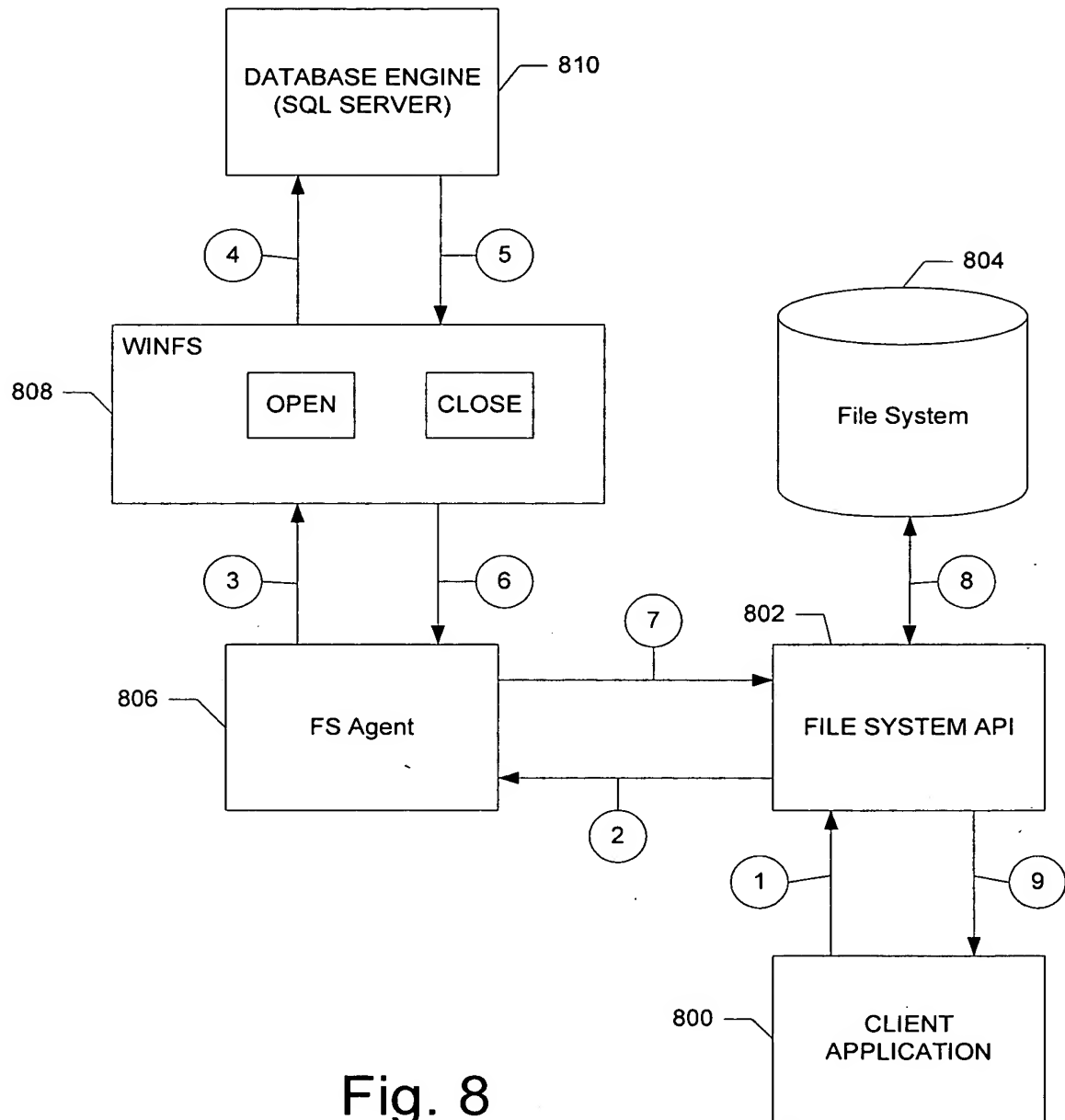
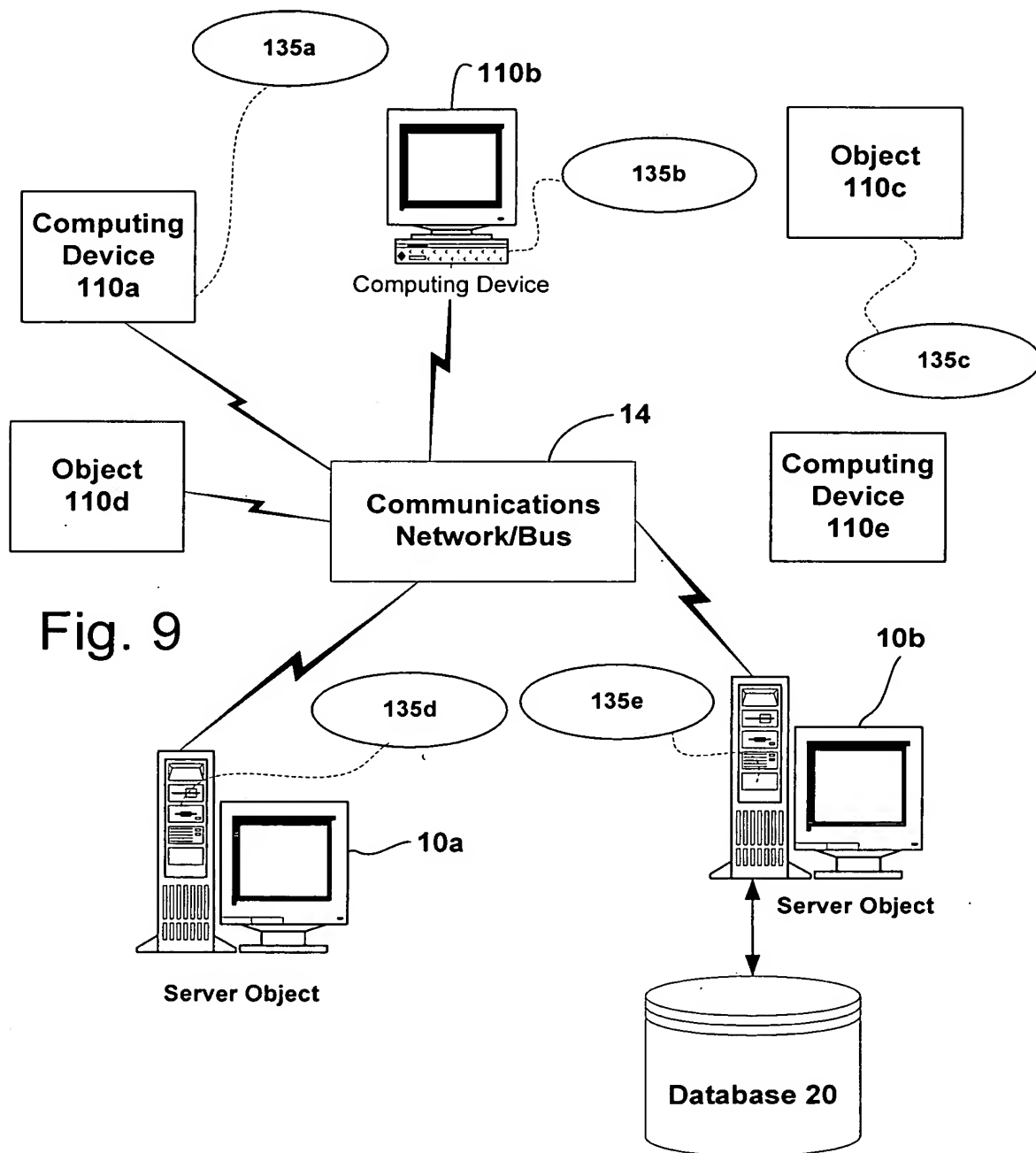


Fig. 8



Computing Environment 100

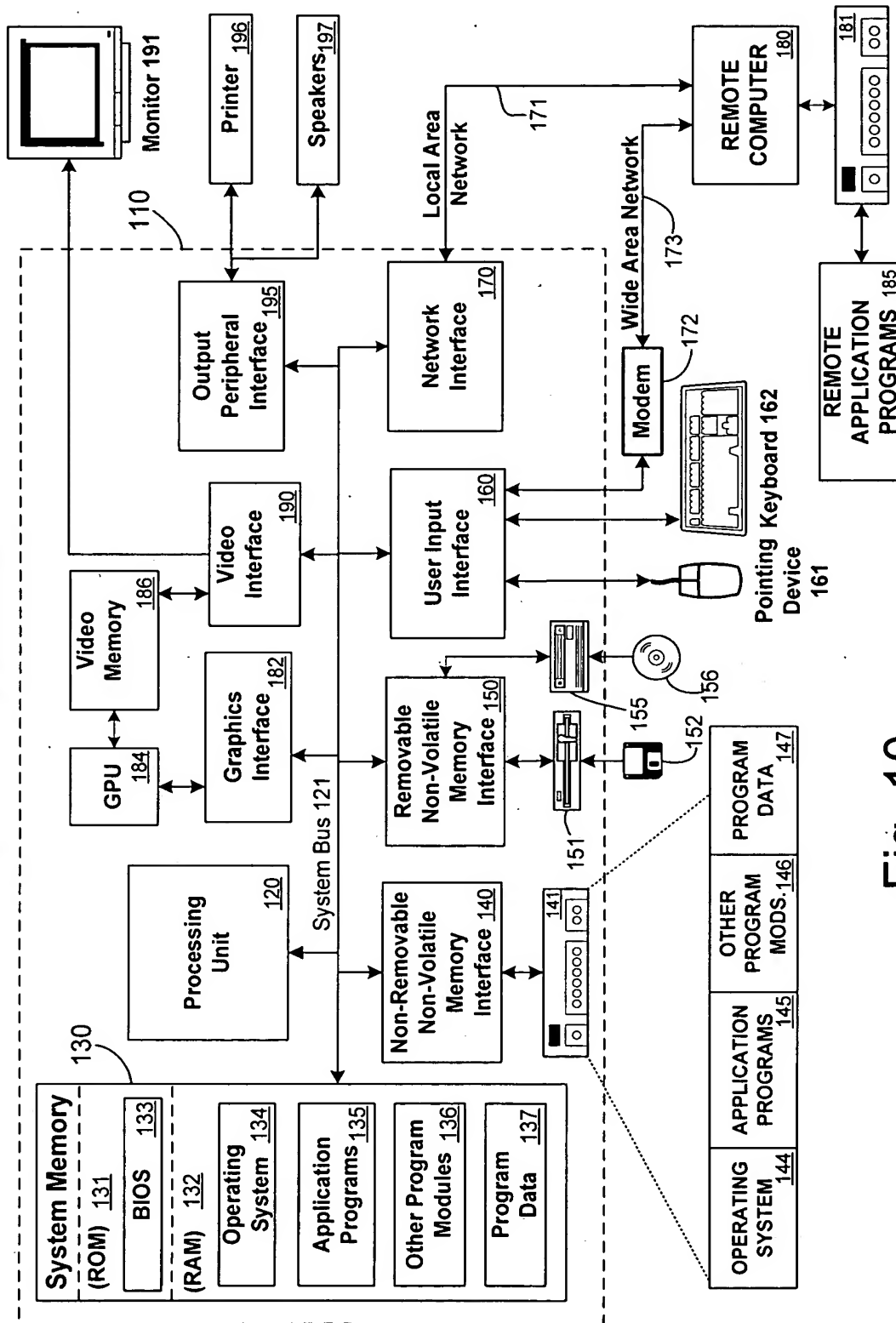


Fig. 10